

IN THE CLAIMS:

Claims 1-3, 6, 13, 14, 16, and 19 have been amended herein. Claim 10 has been cancelled. Please note that all claims currently pending and under consideration in the referenced application are shown below, in clean form, for clarity. Please enter these claims as amended. Also attached is a version with markings to show changes made to the claims.

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1. (Four-times Amended) A method for compressing video data in a computer system comprising:
receiving a stream of data from a current video frame in the computer system, the computer system including a core logic chip for coupling a processor to a system memory and for coupling the processor and the system memory to a system bus;
computing a difference frame from the current video frame and a previous video frame as the current video frame streams into the computer system, wherein computing the difference frame includes computing the difference frame in the core logic chip within the computer system, wherein the core logic chip is a north bridge chip;
storing the difference frame in the system memory in the computer system; and
the host retrieving the difference frame directly from the system memory via the core logic chip to complete compression of the video data.

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2. (Amended) The method of claim 1, including storing the current video frame in the system memory in the computer system.

3. (Amended) The method of claim 2, wherein the current video frame is written over a previous video frame in the system memory.

4. (Unchanged) The method of claim 1, wherein computing the difference frame includes computing an exclusive-OR between the current video frame and the previous video frame.

5. (Unchanged) The method of claim 1, wherein computing the difference frame includes computing a difference between a block of data from the current video frame and a block of data from the previous video frame.

6. (Amended) The method of claim 1, wherein storing the difference frame in memory includes storing the difference frame in the system memory using block transfers.

7. (Unchanged) The method of claim 1, including compressing the video data using the difference frame to produce compressed video data.

8. (Unchanged) The method of claim 1, including performing a color space conversion on the video data.

9. (Unchanged) The method of claim 1, including using the video data in compressed form in a video teleconferencing system.

10. (Cancelled).

11. (Previously Cancelled).

12. (Unchanged) The method of claim 1, wherein computing the difference frame includes computing the difference frame in circuitry outside of a central processing unit in the computer system.

13. (Four-times Amended) A method for compressing video data in a computer system, comprising:

receiving a stream of data from a current video frame in the computer system, the computer system including a core logic chip for coupling a processor to a system memory and for coupling the processor and the system memory to a system bus;

computing a difference frame from the current video frame and a previous video frame as the current video frame streams into the computer system, wherein computing the difference frame includes computing an exclusive-OR between the current video frame and the previous video frame, and wherein computing the difference frame includes computing the difference frame in the core logic chip within the computer system, wherein the core logic chip is a north bridge chip;

storing the difference frame in the system memory in the computer system;

storing the current video frame in the system memory in the computer system;

the host retrieving the difference frame directly from the system memory; and

compressing the video data using the difference frame to produce compressed video data.

14. (Amended) The method of claim 13, wherein the current video frame is written over a previous video frame in the system memory.

15. (Unchanged) The method of claim 13, wherein computing the difference frame includes computing a difference between a block of data from the current video frame and a block of data from the previous video frame.

16. (Amended) The method of claim 13, wherein storing the difference frame in system memory includes storing the difference frame in the system memory using block transfers.

17. (Unchanged) The method of claim 13, including using the compressed data in a video teleconferencing system.

18. (Unchanged) The method of claim 13, including performing a color space conversion on the video data.

19. (Amended) The method of claim 13, including storing instructions and data for the computer system in the system memory.

20. (Previously Cancelled).

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